Application No. 10/637,205 Reply to Office Action of January 12, 2007

Attorney Docket No. 6619-85-2

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1.(Currently amended) A method of increasing tissue oxygenation in mammals.

comprising applying a superoxygenated composition of oxygen microbubbles consisting

essentially of oxygen in a pharmaceutically acceptable vehicle directly to a tissue surface

selected from the group consisting of skin and mucous membranes for a time sufficient to

increase the subepithelial partial oxygen pressure at least about 2 mm beneath the tissue surface

from about 30% to about 120% above baseline pO2.

2. (Original) The method of claim 1 wherein the mammal is a human.

3. (Cancelled)

4. (Original) The method of claim 1 wherein the tissue is affected by a medical

condition.

5. (Currently amended) The method of claim 4 wherein the medical condition is selected

from the group consisting of bedsores, wounds, [[bums]] burns, and ulcers.

6. (Original) The method of claim 4 wherein the medical condition is a bacterial

infection.

7. (Original) The method of claim 6 wherein the bacterial infection is identified as an

anaerobic pathogen bacterial infection.

(WP395888;1) 2

Application No. 10/637,205

Reply to Office Action of January 12, 2007

Attorney Docket No. 6619-85-2

8. (Cancelled)

9. (Cancelled)

10. (Currently amended) The method of claim 1 wherein the level of oxygen in the

superoxygenated composition [[is]] has a concentration from about 45 [[ppm]] parts per million

өжүдөп to about 220 [[ppm]] parts per million өжүдөп.

11. (Original) The method of claim 1 wherein the superoxygenated composition is at

about 0°C, to about 34°C.

12. (Cancelled)

13. (Previously presented) The method of claim 1 wherein the pharmaceutically

acceptable vehicle comprises water.

14. (Previously presented) The method of claim 1 wherein the oxygen microbubbles are

between about 2µ and about 10µ in diameter.

15. (Previously presented) The method of claim 1 wherein the microbubbles are between

about 0.6µ and about 5µ in diameter.

16. (Previously presented) The method of claim 1 wherein the superoxygenated

3

composition is applied under agitation.

(WP395888;I)

Application No. 10/637,205

Reply to Office Action of January 12, 2007

Attorney Docket No. 6619-85-2

17. (Original) The method of claim 16 wherein the agitation is provided in a whirlpool

bath.

18. (Currently amended) The method of claim 1 wherein the pharmaceutically

acceptable vehicle allows the superoxygenated composition to be administered [[is]] in the form

of a cream, lotion or gel.

19. (Original) The method of claim 1 wherein the composition is applied by soaking,

immersion, spraying, rubbing or aerosols.

20. (Withdrawn) A method of increasing tissue oxygenation in mammals, comprising

direct application of a superoxygenated composition of oxygen microbubbles consisting

essentially of oxygen in a pharmaceutically acceptable vehicle to an exposed or removed

mammalian organ to increase the tissue oxygenation.

21. (Withdrawn) The method of claim 20 wherein the pharmaceutically acceptable

vehicle comprises water.

{WP395888;1} 4